

in the news

INSIDE

The MIT Dramashop is ambitiously presenting Luigi Pirandello's *Six Characters in Search of an Author*. Unfortunately, their production lacks needed direction and believability.

p6

In what has been described as the greatest tennis match of the century, MIT Professor of Economics Paul Samuelson soundly defeated Yale Professor James Tobin by a score of 6 to 2. Institute Professor Robert M. Solow expects the loss will have significant impact on the world economy.

p8

UPDATE

The Clamshell Alliance in Boston estimates that almost 2,000 of its members, including many from the MIT community, have been arrested in Seabrook, N.H. during their occupation of the proposed site of a nuclear reactor. The organization anticipates that the majority of those in jail will voluntarily choose to remain there, pending bail solidarity for the entire group.

LOCAL

Metropolitan District Commission head John Snedeker has prohibited future rock concerts on Boston's Esplanade after 175,000 persons jammed the area for Saturday's Spring Fever music festival featuring Heart, Orleans, and Burton Cummings. Snedeker cited trash, traffic, and crowd control problems at the event as reasons for the ban.

NATION

Newly released tapes from the office of former president Richard Nixon have revealed that Nixon was heavily involved in the cover-up of the Watergate break-in as early as three days after it occurred, *The New York Times* reported Sunday.

Scientists have reported that the light from ordinary fluorescent lamps can cause mutations in hamster cells grown in laboratory cultures. It is not known whether human cells are also sensitive.

Dorm rates up 8%, meals fees climb 6%

By Glenn Brownstein

Housing rates will increase by an average of 8.4 percent and dining rates by nearly 6 percent next year according to figures recently released by the Institute.

The increases were considered necessary primarily due to inflation as the undergraduate houses operate on a break-even basis each year.

"It was just a matter of economics. We had to raise more money," explains Associate Dean for Student Affairs Kenneth Browning '66, one of the primary members on the Institute Rate Review Committee that discussed and approved the increases.

Changes in housing and dining services approved by the Committee, which is composed of representatives from Housing and Dining Services, the Office of the Dean of Student Affairs, and dormitory representatives, include a number of new dining options and the elimination of linen service.

The rate sheet, circulated to all dormitory residents this week, lists four dining options for next year: 19 meals per week, 15 meals per week, and both 200- and 300-point plans.

According to Browning, the extra plan was added because of student input and economic concerns. "The system needs more income, meaning we have to raise rates or get more business ...

Biweeklies attack raises, calling them inadequate

By Gerald Radack

MIT's 1,530 biweekly employees received raises averaging seven percent starting with their April 6 paychecks, an amount which Institute officials consider adequate, but which AWARE — an organizing group for a union of biweekly employees — says is "just not enough money."

AWARE members not only dislike the amount of the raise, but disagree with the way it was apportioned.

Under the system used this year, each department was given a seven percent increase in its allotment for biweekly salaries, and was instructed to divide the extra money among its biweekly employees — who are mainly clerical workers — on the basis of "merit."

Nancy Greenhouse, a member of the AWARE organizing committee, called this method "a very divisive way to give raises." According to the April AWARE newsletter, it "sets up an unfair and unnatural competition among workers in an office."

This assessment was disputed by Burton Blueston of the Personnel Office, who said that "in some sense, I think the merit rating system is ideally pitting employee against a set of performance standards that the employee and supervisor have worked out."

Blueston admitted that "when you have a limited amount of money, yes, there are going to be those difficulties," but said that "it depends on how it's managed in each department whether people feel pitted against one another."

some students felt that the present plan (268 points per term) gave them either too much or too little."

Browning added that it was "very likely" that there would be a "no seconds" plan operating out of Lobdell next year — students that want meals with seconds will have to go elsewhere on campus.

In addition, there have been discussions between some deans, Housing and Dining, and Baker residents about the possibility of an experimental plan there next year, Browning noted, but said that nothing had yet been resolved.

While Browning feels that the educational and system-wide communication aspects of the present Rate Review process are useful, he doubts the necessity of continuing the review procedure next year.

"At this point, there's little decision-making except for the argument over whether housing

Institute focus

Students, faculty praise UROP

By Stephen Bessen

In the eight years since its inception, the Undergraduate Research Opportunities Program (UROP) has become one of MIT's most successful undergraduate programs.

Kerry Wilson of the Personnel Office's wage and salary section felt that competition among employees is not necessarily bad. "Merit increases are based on the premise that a person who works harder and well — who does more for the Institute — deserves to be recognized."

AWARE members feel that there should be merit increases, but think they should be in addition to a "general" cost of living increase.

"We need a certain percentage (Please turn to page 5)

Dormitory Rent Increases for the 1977-78 School Year

Dormitory	Avg. Cost/Term This Year*	Avg. Cost/Term Next Year**
Baker	\$521	\$565
Bexley	\$494	\$535
Burton	\$608	\$659
East Campus	\$521	\$565
MacGregor	\$619	\$673
McCormick	\$612	\$663
New House	\$592	\$642
Senior House	\$484	\$525

* Information based on 1976-77 Residence Guide

** Information based on flier circulated by the Dean for Student Affairs (April 28, 1977)

rate increases should be on a percentage basis or, say a \$50 increase across the board. There used to be service tradeoffs to make: those don't exist any more. The communication is important, but it seems to me that Rate Review is a tremendous expenditure of time for not a lot of output."

As a result, Browning has sent a memo to all dormitory presi-

dents and others involved with Rate Review expressing his opinion that Rate Review "is a process that's outlived its time."

"I think the current rate structure is fair, and that we don't have a lot to do at the present time. We can talk about the system any time of the year; if there's a real decision to be made, we can establish a special committee like Rate Review is now."

Up to three-fourths of all undergraduates participate in UROP during their years at MIT. Faculty involvement is also high — between 60 and 70 percent have been involved.

The program's budget is about \$240,000, most of which is passed on directly to students as wages and expenses. Up to 42 percent of the participating faculty, however, give students a stipend from their own research funds, which raises the total budget for UROP substantially.

UROP began in the fall of 1969 and was successful from the start. The Institute predicted that 120 students would participate the first year. In fact, almost 900 students participated in its first two semesters. Funding for the first year was provided by Edwin Land, president of the Polaroid Corporation. Land first advocated such an undergraduate research program in a lecture entitled "Generation of Greatness: The Idea of University in an Age

of Science" given in 1957.

In the spring of 1969, Provost Jerome B. Wiesner called for a program designed to bring undergraduates into full participation in the research activities of the faculty.

The major goals of this program would be to expose students to professional work; to generate enthusiasm, curiosity, and creativity while freeing students and faculty from the restraints of the academic calendar, conventional grading, and bureaucracy; to help foster better student faculty relations; to provide MIT students with a chance to develop skills and try out majors and careers; and to create a unique educational experience combining lectures, labs, and seminars.

To find out if the UROP program has been successful in achieving these goals one merely has to talk to one of the many students involved, a professor, or UROP's enthusiastic director, Professor Margaret MacVicar of the Physics Department. MacVicar sees UROP as a "chance for the student to become independent" and "a very good basis for a personal relationship with a professor at MIT." She added that "undergraduates have a right to some kind of access to the facilities around them."

MacVicar pointed to the number of Institute offices and labs involved as a measure of UROP's success. All 25 departments participate in the program as well as many MIT offshoots and outside institutions and businesses. When asked about similar programs at other schools, Professor MacVicar said that there is "nothing of our scale."

Some of the greatest proponents of UROP are students. Frances Harrison '78 is a civil engineering major who participated in a project involving musical compositions from unconventional elements. She said that UROP gave her a chance to "study on my own with an individual project." Harrison summed (Please turn to page 5)



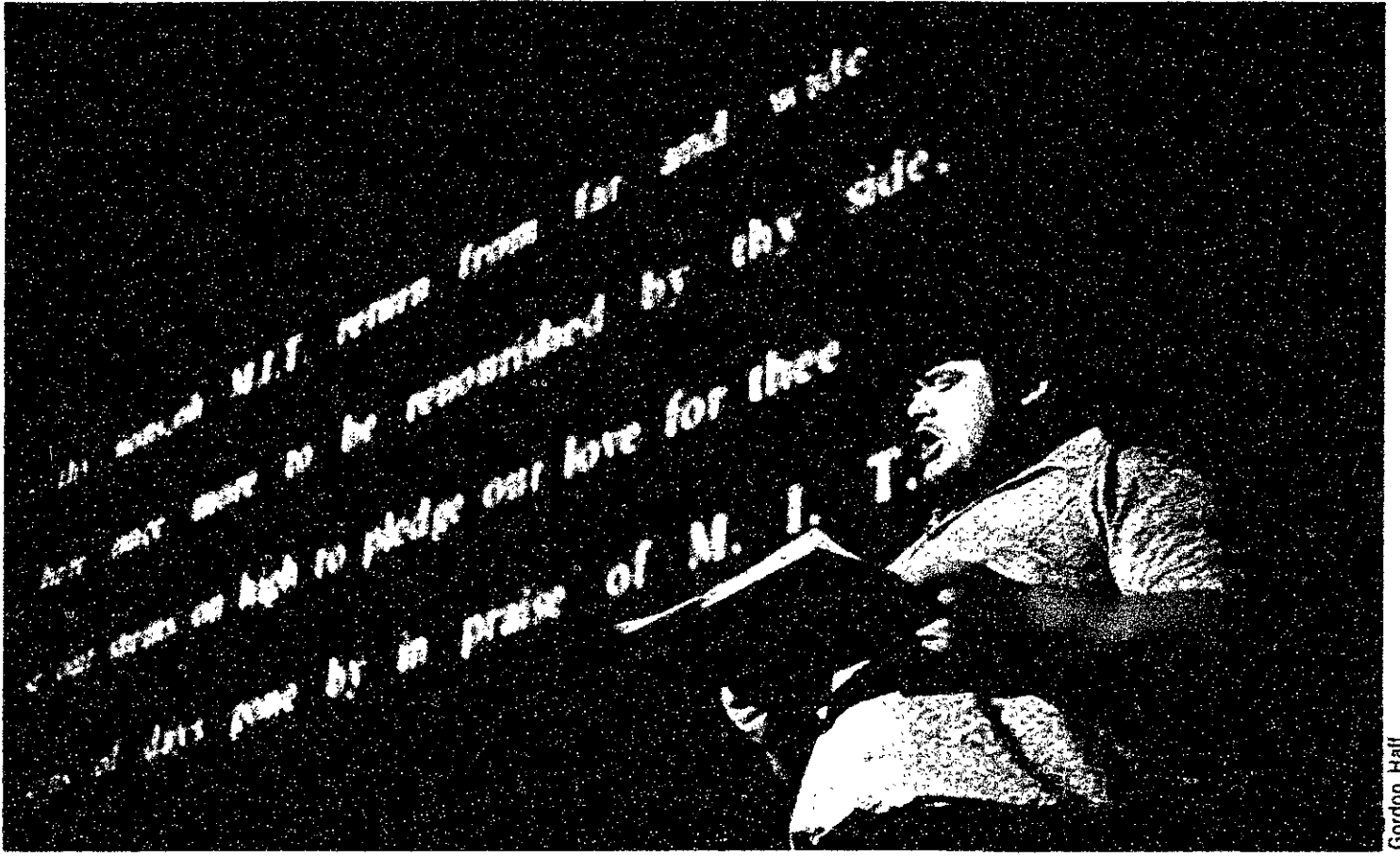
Marc Loiselle G accepts the Institute Screw for Assistant Professor of Earth and Planetary Sciences John Dickey, who was overseas and unable to personally accept the honor.

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KALEIDOSCOPE '77



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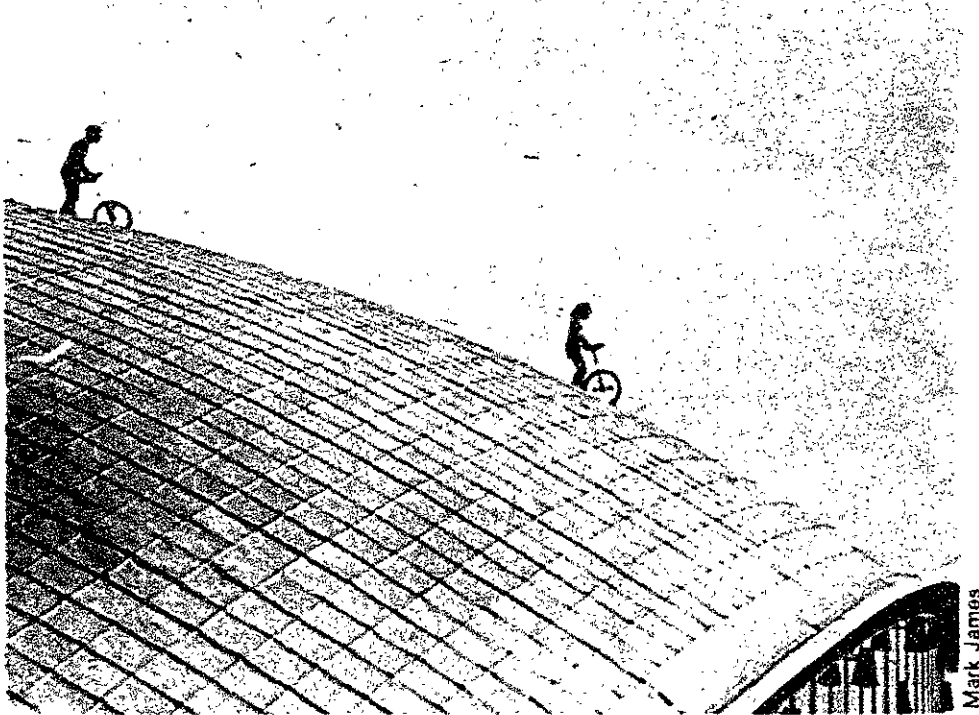
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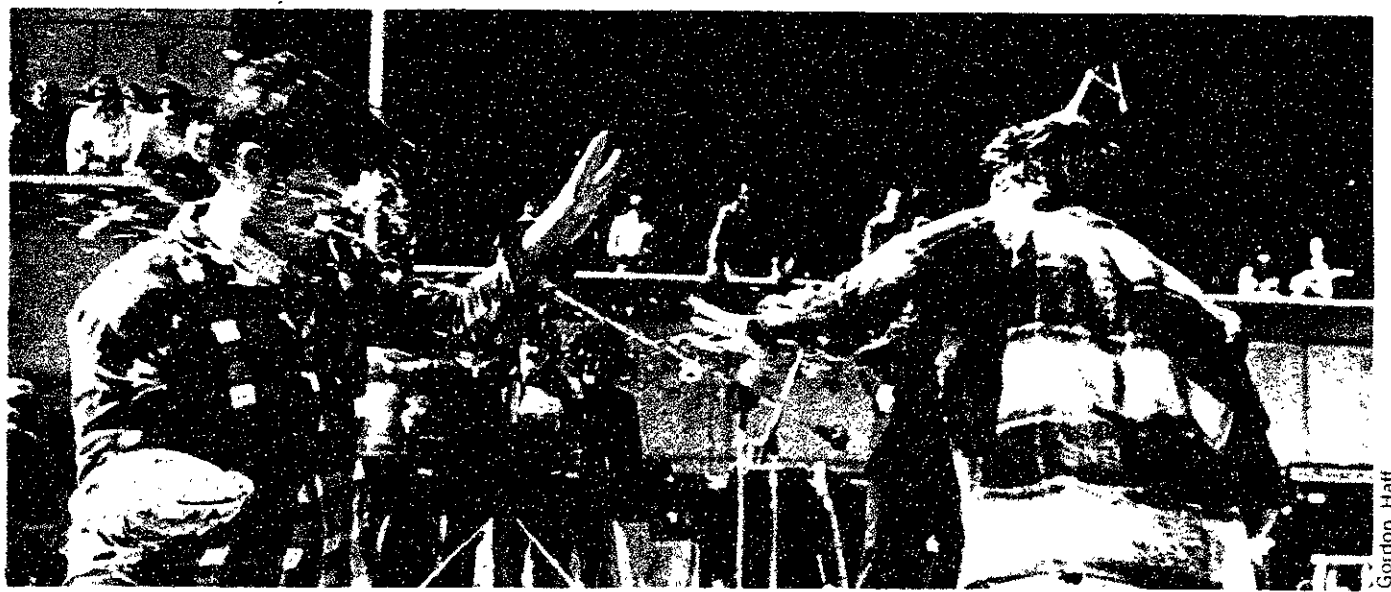
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Jeff Mitchell courtesy Technique



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SPIX NOTES

Some unexplained things are happening below 20 degrees K. A slight change in temperature can cause a material to go from a conductor to a superconductor or from magnetic to non-magnetic and vice versa. How???

A free electron spins thus is retarded by its external magnetic field as it passes atoms (which have electric and magnetic fields) in a conductor which explains resistance. The spin of these free electrons determines the resistance of a specific material. Spix is the precession of an object's spin axis.

An oppositely spinning pair of electrons has no appreciable external magnetic field so we get superconductivity.

The orientation of the common spin axes of oppositely spinning electron pairs accounts for the material being magnetic or non-magnetic. Pairing reduces spix.

Like positive charges with opposite spin magnetically attract overcoming some or all of their electrostatic repulsion aiding fusion.

To further stress how little energy the shields (27 and 29) of patent 3,879,622 might require in the future, imagine a solid state generator where 5 is a conductor or coil. Imagine the shields are made of a material that can be switched back and forth from non-magnetic to magnetic and vice versa with a very low power electronic signal.

This is not so far out on a scientific limb as today we can switch materials back and forth from magnetic to non-magnetic with a temperature change of less than a degree. Transistors are switched back and forth from conductors to non-conductors using less than a millionth of a watt of power.

Perhaps with today's energy crisis finding such a material is better than maybe someday attaining fusion or the landing of men on the moon.

See flash #10 in the 7 Jan '77 The Tech — by JW Ecklin.



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opinion

Editorial

MIT Writing: let's clear the air

We are disappointed at the actions taken by Chairman of the Faculty John Ross in response to the letter sent to him by a group of faculty members concerned with the future of the Writing Program at MIT.

We are further dismayed by the report written at Ross's request by Dean of the School of Humanities and Social Science Harold J. Hanham, which was printed in *Tech Talk* last week, and by the refusal of that publication to grant space for a reply by members of the Writing Program.

Hanham's statement contains nothing other than the arguments behind which the Administration has long been hiding. The Writing Program members have further aggravated the situation by crying "foul" at every Administration move, however benign.

The Dean's proposals for the future of writing at MIT have been imposed on the community without proper discussion or debate, in

a way which has made impossible any significant public input into the decision-making process.

Nearly three weeks after Ross received the letter from nine faculty members and a supportive statement from five others, the Report of the Sivin Committee still has not been sent to the faculty; the report must be distributed immediately. Moreover, Ross has ignored the letter's suggestion that a faculty investigation be conducted. Instead, he has agreed only to discuss the writing program controversy at the regular faculty meeting on May 18, at best a token gesture.

All of these actions have contributed to the growing feeling of confusion and suspicion within the MIT community. The Writing Program controversy will end only after open, honest discussions of the specific points of contention and of the larger issues involved. It is time to clear the air.

USC from Cambridge

Applying for Writing job can be a difficult ordeal

"Hello, Muriel? You wouldn't believe the day I've had. No, I'm not at the airport, I'm still in Cambridge. Let me start from the beginning.

"Like the ad said, I went looking for this guy Bruce Mazlish. He's over in Building 14. They've got so many buildings they've got to number them to keep track. But it's incredible. You have to go from Building 7 to 3 to 10 to 4 to 8 to 6, which is near Building 2, go through the library, which is 14S... anyway, I found this Mazlish's office and showed his secretary the ad I had cut out of the paper last week.

"So anyway, after a while I got in to see Mazlish. Nice office — looks out on the Charles River. He looks a little like Mel Cooley; you know, from the Dick Van Dyke Show. He spoke into the vase of flowers on his desk and said, 'hold all calls except from Harry Hanham or Alan Brady,' and then introduced himself to me.

"So your name is Bellow, Saul Bellow," he said, reaching for my resume. 'Let's see, *To Jerusalem and Back*, *Humboldt's Gift*, Nobel Prize for Literature. Tell me Mr. Bellow,' he began, but he was interrupted by a voice coming over a loudspeaker. 'Ask him what he thinks about expository writing' said the voice. I jumped in my seat. 'What was that?' I cried out. Mazlish covered up the vase. 'Oh, that's just Dean Hanham,' he whispered. 'He likes to keep his eye on things. He thinks he runs the place, but nobody ever listens to him.'

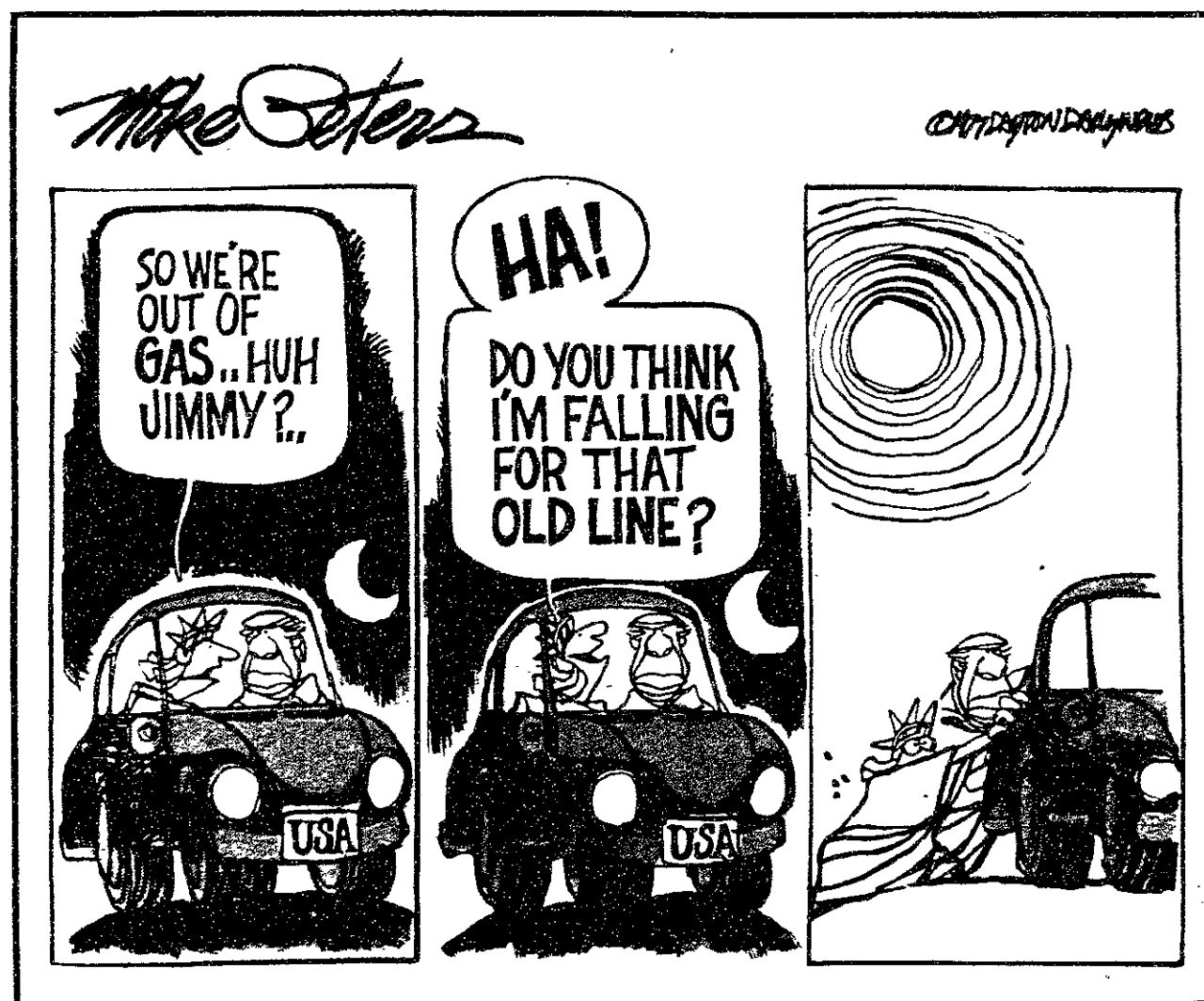
"Mazlish leaned back in his chair. 'So tell me, Saul, uh, what do you think about expository writing?' Just then the door was flung open and in burst a tall, bedraggled character, dragging behind him a shorter, rather serene-looking man. The tall man was visibly upset. 'You know that's not true, Bruce. It's against the Sivin Report,' he shouted. He withdrew a parchment scroll, kissed it, and reverently unrolled it. 'Sivin XXII, 5,' he read. 'Thou shalt not institute expository writing against the will of the divine program.' I'm telling you, Muriel, this guy was nuttier than a Moonie.

"He pulled some documents out of a briefcase. 'Here's a memo from Harry to Jerry about electrical engineering tutorials,' he announced. Then Mazlish said, 'What's that got to do with anything, Sandy?' The looney was definitely taken aback.

"So I asked Mazlish who these guys were. He glanced nervously from the vase to the loudspeaker. 'These are two of our subver — I mean best writing teachers, Sandy Kaye and Joe Brown,' he said. Kaye quickly gave me a copy of a book, *Free Writing: A Group Approach*, along with several other documents. 'Oh, I see,' I began. 'Then if I get the job, I'll be working with these gentlemen?'

"Well, not exactly," Mazlish replied. 'You'll be replacing them.' 'Then, they've been fired?' I asked. 'Oh, no,' Mazlish said defensively. 'Nobody is ever fired at MIT. You'll understand in time.'

"Just then the loudspeaker blasted again. 'Attention all personnel. Attention all personnel. This is Dean Hanham speaking. There will be a science writing course given next year, due to overwhelming popular



feedback

Thursday articles condemned

To the Editor:

I am astounded at the complete and continued lack of professionalism exhibited every week in *thursday*. I do not question *thursday*'s right to a free press, but I do question their misuse of that right. They have printed derogatory letters without even checking to see if the name appearing at the bottom is the person who actually wrote it. They have made fun of a very serious American Cancer Society public service advertisement. Most recently and certainly worst of all, they have printed libelous statements about members of the MIT community. These are not isolated cases. *thursday* continually exhibits this unprofessional attitude. I think the MIT community has been patient enough. It is now time to act.

What can the MIT community do? I suggest the following actions. First, talk to the Deans, especially Dean Holden who is in charge of student activities. Second, express your opinions to Finboard (the funding committee of the UA) and to the Activities Development Board (a funding committee under Dean Holden);

these two groups partially finance *thursday* with your money. Third, make your opinions known to the Executive Committee of the ASA (Association of Small *[sic]* Activities) who allocate space to all student activities. Maybe a more deserving activity could make better use of the very limited space available. Fourth, refuse to pick up copies of *thursday* when they are distributed. Both their funding from paid

advertisements and their institute funding depend on maintaining a certain level of circulation. Fifth, I suggest that those persons named in the recent article in question investigate the possibility of legal recourse. In short, I urge you to do something, to make yourself heard. As a member of the MIT community there is something you can do: you need not be subjected to this.

David Bieberle '77

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Pat Thompson/Dave Koratz

demand. All personnel will be required to submit essays entitled "Why I like the new science writing course" by noon tomorrow. Mazlish made a notation in his calendar book.

"It was then that I began to feel really uneasy. Mazlish noticed the presence of another gentleman in the far corner of the office. 'Who are you,' he demanded. 'Me?' said the non-entity. 'I'm just Don Blackmer.' He glanced at a card. 'Associate Dean for the School of Humanities and Social Science. I used to teach Political Science but now I don't do anything.'

"Mazlish said, 'Would you like to meet three of our instructors, who won't be here next year either?' 'Oh, don't go through all the trouble,' I told him. 'No, it's no trouble at all. They're really all the same person.' As if on cue, three young look-alikes stepped into the office. 'Saul,' Mazlish said, 'I'd like to introduce you to Seth, Dan and Steve.'

"No, I'm Steve," said the middle one. 'No you're not,' said the one on the left, 'I'm Steve.' 'You're all wrong,' contended the one closest to me. 'I'm Steve.' Kaye turned to Brown. 'Gee, I've never seen them all together at the same time,' he said. 'Do you think they do it with mirrors, Joe?' Brown showed no emotion. 'Anything you say, Sandy.'

"I began to see I was getting nowhere. 'Uh, about the job?' I asked. 'Would you like to meet David Breakstone, the Acting Director of the Program?' Mazlish asked me. 'Oh, he'd be my boss?' I said, thinking I was beginning to get the idea. 'No, of course not,' said Mazlish. 'He's not qualified for the job.'

"I tell you, Muriel, I had enough, right then and there. I ran out of the office, back through buildings 14S, 6, 8, 4, 10, 3 and 7 to Mass. Ave. where my car was parked. What do you mean, have I been drinking? I know it's hard to believe, but it's all true. No, it wasn't a waste of time. I got this great idea for my next novel..."

(USC from Cambridge is an infrequent contributor to The Tech.)

UROP program continues successfully

(Continued from page 1)

up her UROP experience by saying, "it [UROP] makes MIT something special."

Nicollette Horbach, Wellesley class of '78, came to UROP looking to enhance her pre-medical training with research. She worked at the Childrens Hospital but retained a contact with the MIT biology department. Through her UROP project she found out that she did not want

to go into surgical medicine.

She also sees UROP as a big plus when applying to professional or graduate schools. She had one warning for prospective UROP students; don't always choose the first one that is offered, "talk with the people and get a feel for the work before you start."

Professor John Edmonds of the Earth and Planetary Science Department has been involved

with UROP since 1970. In that time he has worked closely with "energetic, high caliber students."

One change Edmonds would like to see is greater use of IAP for UROP, which would give the students an "uninterrupted chunk of time to work."

As a member of the faculty, he says that "it is essential that the Institute continue to support UROP" because the funds and

students provided help out young professors who don't have large research budgets.

"UROP is an important element of the teaching program," according to Professor Len Buckle, who along with his wife Suzanne have served as coordinators for UROP in the Urban Studies Department. Buckle feels there are no disadvantages to UROP in the social sciences and humanities. UROP can cover a "broad range of the social studies," he added.

The New York Times, in an article published January 11, 1976, called UROP "American education's most comprehensive attempt to involve undergraduates in scholarly research." The success of the entire program provides ample support for this statement.

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AWARE attempts unionization

(Continued from page 1)

raise each year just to stay even with the cost of living," asserted Janet Billane, a member of the AWARE organizing committee. "That raise should not be misleadingly labeled 'merit'; it should be guaranteed to all workers whose performance is satisfactory."

Wilson claimed that the raises did exceed the cost of living increase — he quoted Department of Labor statistics which showed a 3.5 percent rise in the Boston area cost of living index for calendar 1976 — but stated that "MIT is not able and has not taken the position of pegging its raises to the cost of living."

"The cost of living index is composed in a way that's not as appropriate as people think" for determining actual living expenses, Wilson added. He asserted that "over the past six years, MIT's increases have

exceeded the cost of living increase, but we can't guarantee it."

Bluestone said that at the suggestion of the Working Group on Office-Clerical Issues, MIT experimented with allocating a fixed percentage of the money for general and merit increases, in 1975 and 1976, but "people thought that was too confining." He asserted that the Working Group, of which he is a member, "assumed that the departments would, in their own minds, allot a general increase although that was not explicit in the instructions."

The Working Group, composed of 15 staff employees and 17 biweekly employees, was created to make recommendations to improve the April 1975 review, and has been retained to make recommendations relating to the biweekly work environment, according to Bluestone.

Union Drive

AWARE has a "definite solution in mind that would make the power [of the administration and office employees as a group] equal," Greenhouse noted. Eventually, AWARE would like to file for an election to have District 65 of the Distributive Workers of America become the representative of MIT's office employees.

The election may not be held for a while; Billane said that some employees "feel prestige working at MIT and don't want to tamper with that by joining a union." She said there were other reasons for hesitation among some employees to join the organizing effort.

Greenhouse added that there is a high turnover rate among clerical workers. "There are people who come knowing they're not going to stay for more than a year, and don't care about the union, do not even want to think about it."

"The drive is less active than it was because... we realized the size of the group we were trying to organize," Greenhouse commented. "We decided to stop draining ourselves unrealistically for something that was not going to happen as quickly as we had hoped."

Billane noted that organizing 1,500 clerical workers at one time would be an "unprecedented" accomplishment.

"It's a new thing for people to think they have control over their work situations," Greenhouse stated. "It's especially new for women to think that they have control [85 percent of MIT's bi-weekly workers are women, and especially for women in clerical positions]."

She said that factory workers have a history of being organized and "that has a lot to do with why the average factory worker makes a lot more money than the average clerical."

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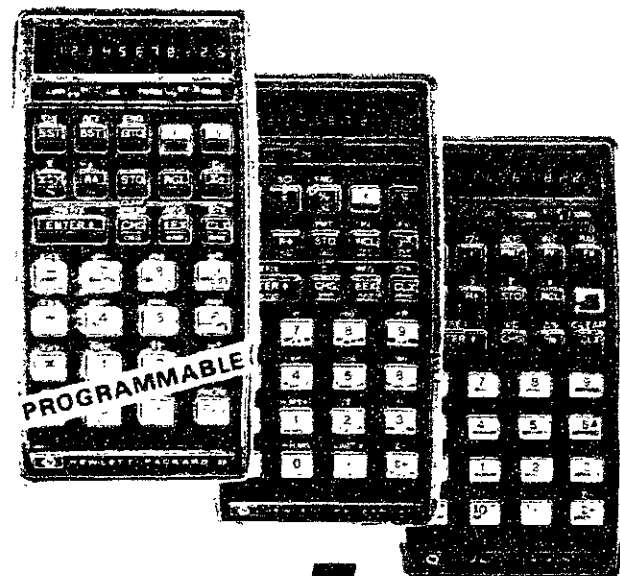
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MIT STUDENT CENTER

Dramashop's Six Characters disappointing

By Kathy Hardis

Imagine yourself rehearsing for a play. Suddenly six strange people dressed in mourning clothes somberly walk up to your stage and proceed to create havoc with your rehearsal.

They claim to be characters, not real people, abandoned by their writer and doomed to wander at loose ends until someone finishes their story.

At first, your director tries to throw them out of the theatre, but they adamantly insist on staying. Finally, your director relents, and the characters are able to complete their destinies through your acting company.

Such is the situation created by Luigi Pirandello in his drama *Six Characters in Search of an Author*. He raises questions on the nature of illusion and reality by contrasting these six unusual Characters with the real human Actors gathered to rehearse their play.

This contrast between illusion and reality, the most essential part of the play, is unfortunately lost in the MIT Dramashop's current production. The rehearsing Actors, with few exceptions, seem to be no more real than the contrasting illusionary six Characters.

They lack realism because their reactions to this group of six strange people

aren't human or believable; their reactions are "hammy" or non-existent, tainted with artificiality.

It is not entirely the fault of the actors portraying this group of Actors that their characterizations are unreal. A play of this nature is extremely difficult to perform believably due to the obvious absurdity of the situations. Each performer must search for his own internal attitudes and reactions towards the situation with the help of the director.

Somehow one gets the impression that the director, Joseph Everingham, spent a great deal of time rehearsing with the six Characters, all of whom were excellent, yet did not spend sufficient time with the other Actors in an effort to develop their smaller roles.

This play also requires yet another illusion: the audience must be convinced that an actual rehearsal is in progress, at which they themselves are not present.

The production does achieve this impression of a rehearsal through its appropriate staging. Initially, the houselights are on, and the bare stage setting and atmosphere are typical of what one might find in an actual Dramashop rehearsal.

This stage illusion, however, is made less believable because the Dramashop actors portray professional actors. Perhaps Dramashop should have further adapted the already rewritten script and portrayed themselves without any artificial pretence of professionalism.

This transition could have been achieved through changes in dialogue and dress. As it stands, the Actors wear coats, ties, and dresses. Real Dramashop actors normally dress more casually in jeans and t-shirts — at their rehearsals.

The six leading characters, all supposedly members of a family, portray their roles with admirable conviction. Susan Morgello '78, as the attractive, dramatic Stepdaughter, plays her role with the necessary passion. Andrew Pieka is excellent as the Father.

Howard Boles '77 and Brooke Jackson are outstanding in their difficult roles of the Son and the Mother. The major difficulty of these roles lies in their periods of prolonged silence on stage, which requires them to maintain characterization without speaking.

Boles is constantly alert as the stiff, uncomfortable Son. He never falters in his interpretation of the role and is constantly aware of the situation which surrounds him.

As previously stated, there are a few exceptional performances in the Acting company. Trish Lacey's portrayal of the Leading Lady is without a doubt the most polished in the production. Alison Brunell as the Character Actress is extremely funny and more importantly, quite believable.

In assessing the theatrical merits of any production, one can not ignore the actors who portray the smaller roles. They did not imagine themselves in the previously described situation — they were not really Actors in a company whose rehearsal was interrupted. And in this play — which absolutely requires that they be believable — the performance suffered as a whole.

Six Characters in Search of an Author might be a play worth seeing, if only for the rather unusual nature of its plot, but considering the talent and potential of the MIT Dramashop, the overall production could have been much better.

events

The MIT Choral Society under the direction of John Oliver will sing Mozart's *Vesperae Solennes De Confessore*, K. 339, and Requiem Mass in D minor, K. 626, at a 7:30pm concert on Sunday, May 8, in Kresge. Tickets for the concert are available at the door or by calling x3-2906, and cost \$4 (\$2 with student ID).

The final concert of the Bach Society's season will be given in Sanders Theatre, Harvard University, on May 7 at 8:30pm. The program includes: Bach Cantata No. 214, Mozart Violin Concerto No. 5, and Mendelssohn Symphony No. 3 ("Scotch"). Tickets cost \$1.50 and are available at the Holyoke Center and at the door. For more information, call 495-2663.

The second offering of the Mass. Center Repertory Co.'s premeir season, Eugene O'Neill's "Long Day's Journey Into Night," opens a limited two week run May 3-15 at the Schubert

Theatre. performance times are set for: Tues.-Sat. at 8pm; matinees Wed. and Sat. at 2pm; and Sun. at 3pm. Tickets are available at the Schubert box-office.

The Harvard-Radcliffe Collegium Musicum and the Faure Society Orchestra will perform the Faure Requiem, Bach Cantata 106, Byrd's Ave Verum Corpus and Porcell's Funeral Sentences on Friday, May 6 at 8:30pm in the St. Paul Church (Bow and Arrow Sts., Cambridge). Tickets are \$4, \$2 for students and are available at Holyoke Center Ticket Office in Harvard Square. For further information call 495-5730.

Student discounts are available now for the Boston Ballet's May 5-8 Agnes de Mille Festival featuring "Rodeo," a free-wheeling ballet which captures the glory of the American West. Tickets for these Music Hall performances are now on sale at the TCA Office, W20-450.



Aztec Two-Step unspectacular

By Katy Gropp

Aztec Two-Step gave a good but unspectacular concert at Kresge last Friday night as a part of Kaleidoscope weekend. The warm-up act was Anna May Wolf, who played country-rock that served to soothe an upset crowd — the concert started over an hour late. The lead singer's excellent voice highlighted the local threesome's 45-minute set.

Aztec Two-Step, comprised of Rex Fowler and Neal Shulman (each playing acoustic guitar) and a four member back-up band, combines country, folk, and rock music in a variety of ways. This band plays music, using the different styles to suit its needs.

Fowler and Shuman sang as well as they played. Their dual guitar-playing, along with a competent electric guitar, provided some very nice listening. Their back-up had talent but did not overpower.

In the middle of Two-Step's, the backup group left Fowler and Shulman to show what they could do as a duo. They performed admirably.

Audience size was hampered by the fact that Aztec was going to be playing a free concert at BU on Sunday. Even though they could have had more life, it was a nice show.

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arts cont.

Technique '77: good mix of print and photo

By Mark James

A yearbook can take on many tasks: to be either a photographic record of events, an outlet for artistic expression through photographs, or a creative mix of words and pictures. *Technique '77* combines the best of all of these purposes together into the best yearbook published here in recent years.

The hallmark of *Technique* in recent years has been a strenuous devotion to photographs of excellent technical quality, often slanted toward the artistic rather than the portrayal of human emotions. This lack of "people pictures" was remedied fairly well by last year's book, and *Technique '77* continues this trend.

A new element is introduced this year, however, which adds greatly to the message of the book: words. Text has been noticeably absent in many past *Techniques*; photos without words can say many things, but there is also much that is better said by a combination of photographs and words. *Technique '77* handles the academic section in a unique and very effective way: a number of well known professors were invited to submit essays on teaching at MIT, and the results were placed together with pictures of the authors. The combination expresses the academic side of MIT impressively.

way into sports. A brief wrap-up of each sport's season has been added to the rear of the sport's section. This addition is important because it increases the lasting value of the book, especially to those involved in these sports.

Balancing text and photographs is not easy; many yearbooks defeat their purpose with unnecessary captions and useless ramblings. The mix in *Technique* is definitely debateable, but this year it is certainly effective.

Another departure from the recent past is the use of color. There isn't very much of it, but what there is makes me wish there was more. Several of the color photographs are very striking, although there are two of them that miss their target slightly, probably due to the rush with which the color work was shot.

In black and white, the *Technique* staff upholds its reputation for quality. There are a few especially strong images, but for the most part the book's strength comes from the consistent high quality of almost all the photographs. This is coupled with a very enthusiastic approach to the book by its photographers and designers.

Their enthusiasm comes out in many ways: an imaginative photo essay on student's rooms from the neat to the messy; the effective use of special graphics



Robert R. Brown, Jr., Technique

on the divider pages, and the clean, lively layouts throughout the book.

The book is made up of very diverse elements, but it possesses a unique continuity. The experience of being an MIT student runs through most of these ele-

ments, and ties them together.

Technique '77 is both beautiful and readable. It is a difficult goal to put out a book that is both esthetic and human, but the staff of *Technique* has done well towards meeting this goal.

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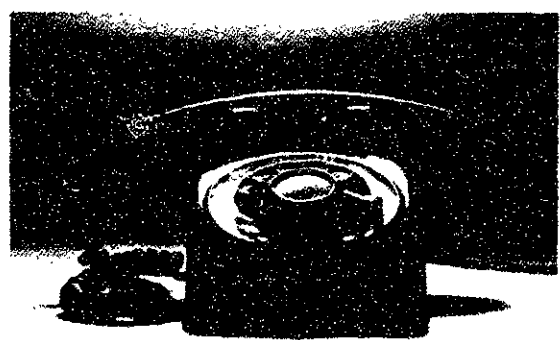
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BALLANTINE

sports

Stickmen finally stem the tide of 'almosts'

By Glenn Brownstein

For all its successes, the 1977 story of MIT lacrosse has been one of almosts.

There was an 8-7 loss to Amherst after a comeback from a 5-0 deficit, a 9-8 loss to Bowdoin almost decided by a furious MIT rally in the last four minutes, and a fine defensive performance that held Trinity to seven goals last week. Unfortunately, rain, mud, and inconsistency plagued MIT's lacrosse-men, who scored just four goals and lost again.

But there were no almosts Saturday afternoon in Springfield, when the Beaver lacrosse-men, led by sophomore attackman Al O'Connor's double hat trick, conquered the Astro turf and the superior stick skills of Springfield, pulling away to a decisive 13-5 victory.

MIT, now 6-4, outscored the Indians in every period, trailing only 1-0 in the first quarter. One of the game's turning points came midway through the opening quarter when, after Springfield had narrowly missed two opportunities to open up a 2-0 lead

(both pipe shots), Brian Harrington '77 quicksticked Springfield goalie Jim McNally's save of an O'Connor shot into the net to tie the game 1-1.

Phil MacNeil '79 bounced one in with one minute left in the first quarter, and MIT then broke the game wide open with five scores in the next period.

Springfield, boasting a talented attack, still had a shot at the win when Eric Poehlman scored during an MIT defensive lapse to pull within three goals early in the

third period, but MacNeil took a pass from co-captain Roger Renshaw '77 and pumped one past McNally just 33 seconds after Poehlman's goal to break the Indians' backs.

In a day of so many excellent performances, two stood out: the six-goal effort of O'Connor, and the 20-save, five-goal performance of MIT goalie Jeff Singer '77, who had his best day in the net all season.

Both those performances earned steak dinners, as did the

five-point (one goal, four assists) performance of senior middle Renshaw. Defensemen do not have a standard for a beefy prize, but the Beaver corps deserved steaks for holding Springfield to only 25 shots on goal, significantly better than the 40 the Indians had last year when they trounced MIT 20-8.

Renshaw's 33 points on 13 goals and 20 assists leads MIT in scoring; MacNeil is the top goal-scorer with 24. And then there's senior goalie Singer, who sports a

sensational .703 save percentage best in his career, and has to be considered for the North-South Game, lacrosse's college all-star classic, to be held in Baltimore June 11.

MIT meets Westfield State in Westfield Wednesday before returning home for the season finale against Brandeis Saturday at 2pm. Brandeis, while playing a relatively unimpressive schedule, has a 5-3 record and senior goaltender Bob Blau, who is averaging 25 saves per game.

A new spirit is emerging in school sports

By Glenn Brownstein

There was a story in the *Globe* the other day reporting high school students' attitudes toward athletics and athletics in general. One of the points the story made was that students today consider athletes as people who participate in athletics, while "jocks" are beer-drinking, woman-chasing machos with super-inflated egos.

This is probably an oversimplification, but it is a signal that an era is over. The "letter sweater" is not the most important goal for the high school (or college) athlete; there are more important battles to be won than whether Newton North can defeat Brookline in a basketball game.

So sports is dying in schools and colleges, right? Less motivated athletes are performing more poorly, right? Wrong! Intramural programs from the smallest high school to large universities like Louisville or Northwestern are blossoming and growing enormously.

And varsity programs are doing well, especially at small schools that do not have to worry about football television contracts and 5 admissions to break even.

The trend today is toward the intelligent athlete, one well-equipped enough to make his own personal decisions, yet mature enough to respect the team concept of many sports. And it is interesting indeed that the growing high school sports include track and cross-country, both more individual-oriented sports, as well as overall women's programs.

The rise of women's sports, the *Globe* article says, has helped place diminishing emphasis on the "big man on campus, football jock" heroes. No longer is it true that the boys are *only* players and the girls *only* cheerleaders; thus it is no longer true that the football hero represents some sort of status symbol for a high school girl.

Coaches have had to change as well. The Vince Lombardi approach just does not work anymore on all but the highest-pressure level of big-time college sport. The "win-at-all-costs" attitude is perceived as artificial and self-defeating by most athletes, and surely it is. Ideally, sports are for self-improvement in personal or team framework; winning every game may be fun, but there is definite pleasure to be derived from a winless season if one performs his/her best.

Woody Hayes would not be tolerated at MIT or even Harvard. Athletic dorms are slowly being phased out at a number of schools; strict curfews have disappeared at others. University of San Francisco basketball coach Bob Gaillard led his team to a 27-1 season despite lack of curfews and freedom-restricting regulations.

Gaillard once quipped that a player, who slept alone the night before a game, was more likely to be reprimanded than one who had a little pre-game company. While USF's Jesuit administration criticizes Gaillard's comment, the matter was dropped within a few days.

The high school track star who refuses to wear his letter jacket except at meets is a symbol of changing times. "The kids at school just wouldn't understand," he says. Compare that to the attitude 20 years ago when kids lived and died for varsity letters. Yet, performances and skills in all sports have improved steadily.

What we have today is a new generation of enlightened athletes. Only some spectators, parents, and coaches could be similarly illuminated.

Tennis game of the century

Yale professor finally loses

By Steve Kirsch

"It will reverberate throughout the economics profession, into the central banks of the world. . . . I wouldn't be surprised if governments didn't fall on this account. People have been banking on Tobin — I use the word 'banking' advisedly — and now currencies will topple, devaluations will occur. . . . Just really, one of the big things of our time."

That's how Institute Professor Robert M. Solow described Paul Samuelson's tremendous 6-2 victory over James Tobin in Friday's Irving Fisher All-Star Tennis Tournament.

The tournament, named for the distinguished Yale economist who failed to predict the stock market crash in 1929, brought to the J.B. Carr Indoor Tennis Courts all the great tennis pros in the world of economics: Professor E. Cary Brown, head of the Department of Economics at MIT, his wife Ms. Brown, Institute Professor Franco Modigliani, Professor Jerry Hausman, Professors Jerry Green, John Pratt, and Michael Spence of Harvard, and Professor Eugene Fama of the University of Chicago Business School. Also included, of course, were two of the world's leading economists and tennis rivals: Institute Professor and Nobel laureate Paul A. Samuelson and Professor James Tobin of Yale University.

Solow, referee for the two-hour battle of the giants, said the tournament was held because "you get a little stir crazy around the first of May in a university like this and you gotta do something. So the only thing we could think of was to drink a little and play tennis."

"I thought the playing was superb," he continued. "Not since the third Borg-Connors match have I seen anything like it. The intellectual quality of the doubles was hard to believe. It was just so fantastic. A real connoisseur could see the delicacy. Modigliani, for instance, . . . Perhaps you didn't notice that Modigliani kept his mouth shut for one whole set. This has never before happened. Never. Never! It's a first. It is absolutely a first. It almost will make the front page of *The New York Times*. If it hadn't been for a small accident, it would have made the first

page."

What was that accident? Solow admitted. "Nobody from the *Times* was here." (The *Times* carried the story on page 31, Saturday, April 30).

Solow attributes Samuelson's win to superior conditioning. He saw the turning point in the game as being after about the third point when, according to Solow, "they both began to tire. But Samuelson — hearty, durable, rugged Samuelson — tired a little less. That's the way it was. It was just a test of strength, of determination. . . . It made your heart glad to see that kind of tennis being played."

Samuelson admitted, "Well, I took unfair advantage of him because I play every day and he doesn't. See I neglect my scholarship and he doesn't. And that's the secret of my success."

But Samuelson didn't think the turning point in the game came after the third point.

"You never know that you have beaten Tobin because he's never lost anything in his life since he was a little boy in kinder-

garten. Even in the Navy he won every prize that there was going."

So Samuelson relied on more than just superior conditioning in order to win. He took "unfair advantage" of Tobin in another way: "I knew I was going to get him when I had this big Prince racquet. I was taking unfair advantage of him. I owe everything to the racquet, yes. He was warned, but he said he wouldn't be intimidated."

Samuelson thinks the win is very significant: "I expect it shows that modern technology cannot be held back. It was the Prince racquet which was tested in the physics laboratories of Princeton University. He was beaten by the system."

And Solow thinks the win vindicates "our whole approach to teaching economics. The MIT precept of a sound mind in a healthy body has once again triumphed over whatever they do at Yale."

What does Professor Tobin think of all this? Not much. He says, "Oh, I suppose more tennis players will come to study economics at MIT."



foul shots

just does not work anymore on all but the highest-pressure level of big-time college sport. The "win-at-all-costs" attitude is perceived as artificial and self-defeating by most athletes, and surely it is. Ideally, sports are for self-improvement in personal or team framework; winning every game may be fun, but there is definite pleasure to be derived from a winless season if one performs his/her best.

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Grad booters win shutout

By Tom Stagliano

Last Saturday the MIT Graduate soccer team recorded its first victory by blanking Arlington 20. This puts the graduates at 1-0-1 in the Bay State Industrial League.

The Beavers scored in each half, outshooting Arlington 14-3. Working a two-squad halfback rotation, the Tech booters were able to control the midfield play and feed the forward line at will. Short passing and deft ball-handling were the key to the first goal, as Prof. Peter Huber '74 passed to Toshome Seyoum G to penetrate the Arlington defense and feed Amarquaye Armar G who netted a booming sixteen yard drive.

The Beaver front line is physically small but extremely quick with the ability to convert "harmless" passes into fast breaks. The second goal came as left wing Rick Wachnik '76 forced a mis-play by the Arlington fullbacks, allowing co-captain Al Lush G to both intercept and deke the ball past the Arlington goaltender, finishing the play by dribbling into the goal for the score.

The Arlington game was unbalanced early by the Tech fullbacks. A miscue in the penalty

area allowed an Arlington forward to advance on an unguarded Beaver net. The ensuing shot was cleared from the goalmouth by co-captain Tom Stagliano '73, preventing a tying goal by inches.

The Tech goaltending was superb by Joaquin Pelaez G (Mexico Pan American Games) and L. Suna '79. In the nets for Arlington was Art Rosales (MIT ILO) whose acrobatic play contained the Beavers to only two goals.

The key to the MIT game was midfield ball control, allowing the forwards ample time to work their scoring plays. Putting power and physical size into this defense are fullbacks Bruce Doak G and Prof. Bent Orsted, and halfbacks Andy Jarrell G and Bill Ernschaw G.

The Beaver Booters will go on the road next week, meeting Polaroid, then returning to Briggs Field on May 14. The Industrial League schedule carries through to the end of June and resumes in September. A trophy is awarded to the first place team and a second trophy will be given to the victor of single elimination tournament which will start soon.

**ANNOUNCING
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Stickmen finally stem the tide of 'almosts

By Glenn Brownstein

For all its successes, the 1977 story of MIT lacrosse has been one of almosts.

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Yale profess

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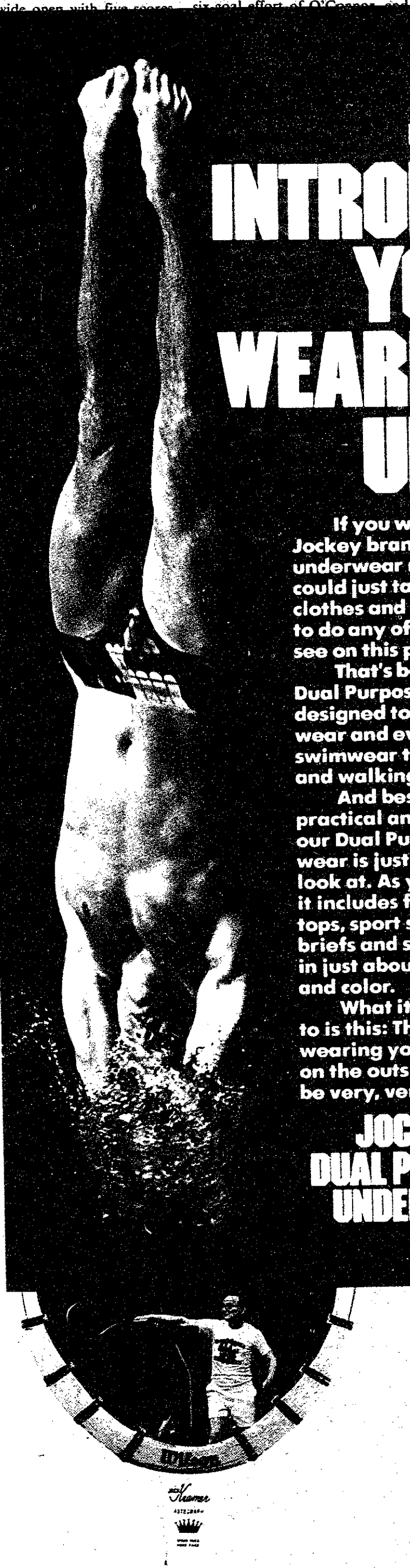
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five-point (one goal, four assists) performance of senior middle Renshaw. Defensemen do not have a standard for a beefy prize, but the Beaver corps deserved

sensational 703 save best in his career, considered for the Game, lacrosse's classic, to be held June 11.

MIT meets Westfield, Wedne



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penetrate the Arlington defense and feed Amarquaye Armar G who netted a booming sixteen yard drive.

The Beaver front line is physically small but extremely quick with the ability to convert "harmless" passes into fast breaks. The second goal came as left wing Rick Wachnik '76 forced a mis-play by the Arlington fullbacks, allowing co-captain Al Lush G to both intercept and deke the ball past the Arlington goaltender, finishing the play by dribbling into the goal for the score.

The Arlington game was unbalanced early by the Tech fullbacks. A miscue in the penalty

the forwards amplified their scoring plays. and physical size in are fullbacks Bruce Prof. Bent Orstbacks Andy Ja Bill Ernschaw G.

The Beaver Bogs the road next v Polaroid, then Briggs' Field on Industrial League ries through to th and resumes in trophy is awarde place team and a will be given to single eliminatio which will start sc

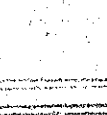
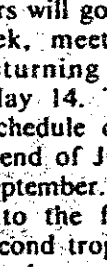
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Stickmen finally stem the tide of 'almosts'

By Glenn Brownstein

For all its successes, the 1977 story of MIT lacrosse has been one of almosts.

There was an 8-7 loss to Amherst after a comeback from a 5-0 deficit, a 9-8 loss to Bowdoin almost decided by a furious MIT rally in the last four minutes, and a fine defensive performance that held Trinity to seven goals last week. Unfortunately, rain, mud, and inconsistency plagued MIT's lacrosse-men, who scored just four goals and lost again.

But there were no almosts Saturday afternoon in Springfield, when the Beaver lacrosse men, led by sophomore attackman Al O'Connor's double hat trick, conquered the Astroturf and the superior stick skills of Springfield, pulling away to a decisive 13-5 victory.

MIT, now 6-4, outscored the Indians in every period, trailing only 1-0 in the first quarter. One of the game's turning points came midway through the opening quarter when, after Springfield had narrowly missed two opportunities to open up a 2-0 lead

(both pipe shots). Brian Harrington '77 quicksticked Springfield goalie Jim McNally's save of an O'Connor shot into the net to tie the game 1-1.

Phil MacNeil '79 bounced one in with one minute left in the first quarter, and MIT then broke the game wide open with five scores in the next period.

Springfield, boasting a talented attack, still had a shot at the win when Eric Poehlman scored dur-

ing the third period, but MacNeil took a pass from co-captain Roger Renshaw '77 and pumped one past McNally just 33 seconds after Poehlman's goal to break the Indians' backs.

In a day of so many excellent performances, two stood out: the six-goal effort of O'Connor, and the 20-save, five-goal performance of MIT goalie Jeff Singer '77, who had his best day in the net all season.

five-point (one goal, four assists) performance of senior middle Renshaw. Defensemen do not have a standard for a beefy prize, but the Beaver corps deserved steaks for holding Springfield to only 25 shots on goal, significantly better than the 40 the Indians had last year when they trounced MIT 20-8.

Renshaw's 33 points on 13 goals and 20 assists leads MIT in scoring; MacNeil is the top goal-

sensational .703 save percentage best in his career, and has to be considered for the North-South Game, lacrosse's college all-star classic, to be held in Baltimore June 11.

MIT meets Westfield State in Westfield Wednesday before returning home for the season finale against Brandeis Saturday at 2pm. Brandeis, while playing a relatively unimpressive schedule, has a 5-3 record and senior goal-

Tennis game of the

Yale prof

By Steve Kirsch

"It will reverberate throughout the economics profession into the central banks of the world. . . . I wouldn't be surprised if governments didn't fall on this account. People have been banking on Tobin — I use the word 'banking' advisedly — and now currencies will topple, devaluations will occur. . . . Just really, one of the big things of our time."

That's how Institute Professor Robert M. Solow described Paul Samuelson's tremendous 6-1 victory over James Tobin in Friday's Irving Fisher All-Star Tennis Tournament.

The tournament, named for the distinguished Yale economist who failed to predict the stock market crash in 1929, brought to the J.B. Carr Indoor Tennis Courts all the great tennis pros of the world of economics: Professor E. Cary Brown, head of the Department of Economics at MIT, his wife Ms. Brown, Institute Professor Franco Modigliani, Professor Jerry Hausman, Professors Jerry Green, John Pratt, and Michael Spence of Harvard, and Professor Eugene Fama of the University of Chicago Business School. Also included, of course, were two of the world's leading economists and tennis rivals: Institute Professor and Nobel laureate Paul A. Samuelson and Professor James Tobin of Yale University.

Solow, referee for the two-hour battle of the giants, said the tournament was held because "you get a little stir crazy around the first of May in a university like this and you gotta do something. So the only thing we could think of was to drink a little and play tennis."

"I thought the playing was superb," he continued. "Not since the third Borg-Connor match have I seen anything like it. The intellectual quality of the doubles was hard to believe. It was just so fantastic. A real connoisseur could see the delicacy. Modigliani, for instance. . . . Perhaps you didn't notice that Modigliani kept his mouth shut for one whole set. This has never before happened. Never. Never! It's a first. It is absolutely a first. It almost will make the front page of *The New York Times*. If it hadn't been for a small accident, it would have made the first

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leaky, small but extremely quick with the ability to convert "harmless" passes into fast breaks. The second goal came as left wing Rick Wachnik '76 forced a mis-play by the Arlington fullbacks, allowing co-captain Al Lush G to both intercept and deke the ball past the Arlington goaltender, finishing the play by dribbling into the goal for the score.

The Arlington game was unbalanced early by the Tech fullbacks. A miscue in the penalty

backs Andy Jarrett G and Bill Ernschaw G.

The Beaver Booters will go on the road next week, meeting Polaroid, then returning to Briggs' Field on May 14. The Industrial League schedule carries through to the end of June and resumes in September. A trophy is awarded to the first place team and a second trophy will be given to the victor of a single elimination tournament which will start soon.